

SECTION J – ATTACHMENT VI ENERGY STAR COMPLIANCE

In accordance with the Energy Policy Act of 2005 (P.L. 109-58), the following performance criteria are applicable for ENERGY STAR® qualified and FEMP-designated products:

J-II.1 COMPUTERS AND MONITORS

The Contractor shall provide new and repaired computers, monitors, and integrated computer-monitor systems that earn the ENERGY STAR and are configured properly for automatic energy-saving features, such as entering into low-power or sleep mode after a maximum of 30 minutes of inactivity, as per current ENERGY STAR specifications. The Contractor shall provide customer support with respect to power management features, such that these features remain properly enabled and repaired if a malfunction occurs. The Contractor is encouraged to visit energystar.gov for complete product specifications and an updated list of qualifying products.

Table A: Key Product Criteria for ENERGY STAR Labeled Computers

Guideline	Power Consumption	
	Power Supply	Watts (W) in Sleep Mode
<ul style="list-style-type: none"> • Shall enter a sleep mode within 30 minutes of inactivity • If shipped with network capability, shall sleep on networks and respond to wake events 	Guideline A*:	
	≤ 200W	≤ 15W
	> 200W ≤ 300W	≤ 20W
	> 300W ≤ 350W	≤ 25W
	> 350W ≤ 400W	≤ 30W
	> 400W	10% of power supply's maximum continuous output rating
<ul style="list-style-type: none"> • Shall enter a sleep mode within 30 minutes of inactivity • If shipped with network capability, shall sleep on networks and respond to wake events 	Guideline B**:	≤ 15% of power supply's maximum continuous output rating

* The following types of computers must be qualified under Guideline A:

- § Computers that are shipped with the capability to be on networks such that they can remain in their low-power/sleep mode while their network interface adapter retains the ability to respond to network queries.
- § Computers that are not shipped with a network interface capability.
- § Computers shipped to a non-networked environment.

EPA expects computers sold or otherwise marketed as personal computers to be qualified under Guideline A only.

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** Computers that are shipped with the capability to be on networks that currently require the computer's processor and/or memory to be involved in maintaining its network connection while in sleep mode can be qualified under Guideline B. Computers qualifying under Guideline B are expected to maintain identical network functionality in and out of sleep mode.

Table B: Key Product Criteria for ENERGY STAR Labeled Monitors

Low-Power Mode	First Low-Power "Sleep Mode"	Second Low-Power "Deep Sleep" Mode
Maximum Watts in Low-Power State	≤ 15 Watts	≤ 8 Watts
Maximum Time to Enter Low-Power State	≤ 30 minutes	≤ 60 minutes*

*Note: The time that a monitor takes to enter into the first low power "sleep mode" and the second low-power "deep sleep" mode shall not exceed 60 minutes.

Table C: Key Product Criteria for ENERGY STAR Labeled Integrated Computer System

Guideline	Power Consumption (Watts in Sleep Mode)
<ul style="list-style-type: none">• Shall enter a sleep mode within 30 minutes of inactivity• If shipped with network capability, shall sleep on networks and respond to wake events	≤ 35W

Additional considerations for the procurement official:

- You, or other individuals in your organization, may adjust the power management setting to conform to unique work patterns. If you have questions about activating or changing the sleep feature, refer to the owners' manual, call the manufacturer's help line, or visit www.energystar.gov/powermanagement.
- If your business operates on a local area network (LAN), be sure to specify that the power management feature on your computer is compatible with the existing network system.

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J-II.2 PRINTERS/FAX MACHINES/MAILING MACHINES

The Contractor shall provide printers, fax machines, and mailing machines that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency as outlined below.

Table 1. Stand Alone Fax Machines (designed to accommodate primarily A4 or 8.5" x 11" sized paper)

Product Speed In Pages Per Minute (ppm)	Sleep Mode (Watts)	Default Time To Sleep Mode
$0 < \text{ppm} \leq 10$	≤ 10	≤ 5 minutes
$10 < \text{ppm}$	≤ 15	≤ 5 minutes

Table 2. Mailing Machines

Product Speed In Mail Pieces Per Minute (mppm)	Sleep Mode (Watts)	Default Time To Sleep Mode
$0 < \text{mppm} \leq 50 \text{ mppm}$	≤ 10	≤ 20 minutes
$50 < \text{mppm} \leq 100 \text{ mppm}$	≤ 30	≤ 30 minutes
$100 < \text{mppm} \leq 150 \text{ mppm}$	≤ 50	≤ 40 minutes
$150 < \text{mppm}$	≤ 85	≤ 60 minutes

Table 3. Standard Size Printers and Printer/Fax Combinations (designed to accommodate primarily A3, A4, or 8.5" x 11" sized paper; includes monochrome electrophotography, monochrome thermal transfer, and monochrome and color ink jet)

Product Speed In Pages Per Minute (ppm)	Sleep Mode (Watts)	Default Time To Sleep Mode
$0 < \text{ppm} \leq 10$	≤ 10	≤ 5 minutes
$10 < \text{ppm} \leq 20$	≤ 20	≤ 15 minutes
$20 < \text{ppm} \leq 30$	≤ 30	≤ 30 minutes
$30 < \text{ppm} \leq 44$	≤ 40	≤ 60 minutes
$44 < \text{ppm}$	≤ 75	≤ 60 minutes

Table 4. Impact Printers (designed to accommodate primarily A3 paper)

Sleep Mode (Watts)	Default Time To Sleep Mode
≤ 28	≤ 30 minutes

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Table 5. Large/Wide-Format Printers (designed to accommodate primarily A2 or 17" x 22", or larger paper)

Product Speed In Pages Per Minute (ppm)	Sleep Mode (Watts)	Default Time To Sleep Mode
$0 < \text{ppm} \leq 10$	≤ 35	≤ 30 minutes
$10 < \text{ppm} \leq 40$	≤ 65	≤ 30 minutes
$40 < \text{ppm}$	≤ 100	≤ 90 minutes

Table 6. Color Printers (designed to accommodate primarily A3, A4, or 8.5" x 11" sized paper; includes color electrophotography and color thermal transfer)

Product Speed In Color Pages Per Minute (ppm)	Sleep Mode (Watts)	Default Time To Sleep Mode
$0 < \text{ppm} \leq 10$	≤ 35	≤ 30 minutes
$10 < \text{ppm} \leq 20$	≤ 45	≤ 60 minutes
$20 < \text{ppm}$	≤ 70	≤ 60 minutes

J-II.3 SCANNERS

The Contractor shall provide scanners that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency as outlined below.

Performance Characteristic	Current Criteria
Low-power Mode	≤ 12 watts
Low-power Mode Default Time	≤ 15 minutes

J-II.4 COPIERS

The Contractor shall provide copiers that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency as outlined below.

Standard-sized Copiers

Copier Speed (copies per minute)	Low-Power Mode (watts)	Low-Power Default Time	Recovery Time 30 Seconds	Off Mode (watts)	Off Mode Default Time	Automatic Duplex Mode
$0 < \text{cpm} \leq 20$	None	NA	NA	≤ 5	≤ 30 min.	No
$20 < \text{cpm} \leq$	$3.85 \times \text{cpm}$	15 min.	Yes	≤ 15	≤ 60	Optional

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44	+ 5				min.	
44 < cpm	3.85 x cpm + 5	15 min.	Recommend ed	≤ 20	≤ 90 min.	Optional

cpm = copies per minute

To qualify as ENERGY STAR, copier models designed to handle primarily A2 or 17" x 22" paper or larger shall meet the specifications listed below. All large format copier speeds shall be measured with respect to the number of A4-sized copies that are produced per minute.

Large Format Copiers

Copier Speed (copies per minute)	Low-Power Mode (watts)	Low-Power Default Time	Recovery Time 30 Seconds	Off Mode (watts)	Off Mode Default Time	Automatic Duplex Mode
0 < cpm ≤ 40	NA	NA	NA	≤ 10	≤ 30 min.	No
40 < cpm	3.85 x cpm +5	15 min.	Recommend ed	≤ 20	≤ 90 min.	No

J-II.5 MULTIFUNCTION DEVICES

The Contractor shall provide multifunction devices that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency as outlined below.

Table 1. Standard-sized Multifunction Devices

Multifunction Device Speed (images per minute)	Low-power Mode (Watts)	Recovery Time 30 seconds	Sleep Mode (Watts)	Sleep Mode Default Time	Automatic Duplex Mode
0 < ipm ≤ 10	NA	NA	≤ 25	≤ 15 min	No
10 < ipm ≤ 20	NA	NA	≤ 70	≤ 30 min	No
20 < ipm ≤ 44	3.85 x ipm + 50	Yes	≤ 80	≤ 60 min	Optional
44 < ipm ≤ 100	3.85 x ipm + 50	Recommend ed	≤ 95	≤ 90 min	Default for both copying and printing/fax receipt

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100 < ipm	3.85 x ipm + 50	Recommended	≤ 105	≤ 120 min	Default for both copying and printing/fax receipt
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ipm= images per minute

Table 2. Large Format Multifunction Devices

Multifunction Device Speed (images per minute)	Low-power Mode (Watts)	Recovery Time 30 seconds	Sleep Mode (Watts)	Sleep Mode Default Time	Automatic Duplex Mode
0 < ipm ≤ 40	NA	NA	≤ 70	≤30	No
40 < ipm	4.85 x ipm + 50	Recommended	≤ 105	≤90	No